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**XML and object-relational database systems**[psu.edu](#) [PDF]

M Klettke, H Meyer - Lecture Notes in Computer Science, 2001 - Springer

... Object-relational databases allow the use of structured or nested attributes in NF 2-relations [11]. These characteristics can be used to map XML documents onto databases in a more natural way. The element **hierarchy** of a ... directly mapped onto nested attributes of a **database**. ...

[Cited by 127](#) - [Related articles](#) - [BL Direct](#) - [All 19 versions](#)**ORDPATHs: Insert-friendly XML node labels**[psu.edu](#) [PDF]

P O'Neil, E O'Neil, S Pal, I Cseri, G Schaller, ... - Proceedings of the ..., 2004 - portal.acm.org

... tree) provide efficient means to locate **nodes** on all XPATH axes of **hierarchy** and precedence ...  
 7. Literature Review and Observations In [9], three labeling schemes for XML trees are ... document order: Global order, Local Order, which labels children of each **node** with integers ...

[Cited by 247](#) - [Related articles](#) - [All 22 versions](#)**[book] XML data management: Native XML and XML-enabled database systems**

AB Chaudhri, A Rashid, R Zicari - 2003 - books.google.com

... and Doctypes 25 2.3.2 Schemas 26 2.3.3 Access to Other Databases—Tamino X-Node 28 2.3 ...  
 Issues 34 2.3.6 Indexing 35 2.3.7 Organization on Disk 36 2.4 Querying XML 37 2.4 ... 38 2.4.3  
 Handling of Results 38 2.4.4 Query Execution 39 2.5 Tools 39 2.5.1 Database Browsing 39 ...

[Cited by 122](#) - [Related articles](#) - [All 5 versions](#)**[PDF] Indexing and querying XML data for regular path expressions**[psu.edu](#) [PDF]

Q Li, B Moon - Proceedings of the International Conference on Very ..., 2001 - Citeseer

... inefficient for processing regular path expression queries, because the overhead of traversing the **hierarchy** of XML ... tree structure, where **nodes** represent elements, attributes and text data, and parent-child **node** pairs represent nesting between XML data components. ...

[Cited by 762](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 55 versions](#)**Native XML support in DB2 universal database**[psu.edu](#) [PDF]

M Nicola, B Van der Linden - ... of the 31st international conference on ..., 2005 - portal.acm.org

... For the sample document in Figure 3, this **hierarchy** looks similar to the document tree in the ... DB2 index manager has been enhanced to explicitly handle special values from the **XML** type system ... If a **node** matches the **xmlpattern** but fails to cast to the specified index type, then ...

[Cited by 62](#) - [Related articles](#) - [BL Direct](#) - [All 15 versions](#)

## ROX: relational over **XML**

[psu.edu](#) [PDF]

A Halverson, V Josifovski, G Lohman, H ... - Proceedings of the ..., 2004 - portal.acm.org  
... However, if our **XML** documents have several levels of **hierarchy**, queries referencing only data at ... to the CREATE NICKNAME statement to hand back to the **database** engine. ... To implement the PRIMARY\_KEY column option, we used an internally generated **XML node** identifier. ...

[Cited by 35](#) - [Related articles](#) - [BL Direct](#) - [All 7 versions](#)

## **XML** data stores: Emerging practices

A Vakali, B Catania, A ... - IEEE Internet ..., 2005 - doi.ieeecomputersociety.org  
... describes each element's attributes and (optionally) attribute values; it might also describe element **hierarchies** and occurrences ... 11 Timber transforms the **XML** document into a parse tree, which it stores as ... a logical tree to a physical one using one of three **node** types: aggregate ...

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## [PDF] ... Zürich at INEX: Flexible information retrieval from **XML** with PowerDB-**XML**

[psu.edu](#) [PDF]

T Grabs, HJ Schek - Fuhr et al.[78] - Citeseer  
... Path expressions have the syntax /step/step/.../step. Starting at the root **node**, each step moves the current context through the **XML** element **hierarchy**. Each step has the form AxisSpec::Node-Test[Predicate] and its evaluation depends on the current context. ...

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## LDAP: Framework, practices, and trends

V Koutsonikola, A Vakali - IEEE Internet Computing, 2004 - doi.ieeecomputersociety.org  
... Another approach 5 maps **XML** DOM **nodes** to LDAP entries using LDAP object class definitions for **XML nodes**. ... The XMLDAP gateway (<http://xml.coverpages.org> ... times depend on several factors, including: query filtering; where the search starts in the data **hierarchy**; the number ...

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## XQuery implementation in a relational **database** system

[psu.edu](#) [PDF]

S Pal, I Cseri, O Seeliger, M Rys, G Schaller, ... - Proceedings of the ..., 2005 - portal.acm.org  
... to the **XML** schema require a significant amount of maintenance of the **database** schema and ... of the **XML** instance, such as relative order of **nodes** and document **hierarchy**, are captured ... and the Path\_ID column that contains the reversed, encoded path from an **XML node** to the ...

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